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SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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EXAMINER  
HARRELL, R

ART UNIT	PAPER NUMBER
232	9

DATE MAILED: 06/05/91

This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined  Responsive to communication filed on 5/8/91  This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), -0- days from the date of this letter.  
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1.  Notice of References Cited by Examiner, PTO-892.
2.  Notice re Patent Drawing, PTO-948.
3.  Notice of Art Cited by Applicant, PTO-1449.
4.  Notice of Informal Patent Application, Form PTO-152
5.  Information on How to Effect Drawing Changes, PTO-1474.
6.  \_\_\_\_\_

Part II SUMMARY OF ACTION

1.  Claims 1-97 are pending in the application.

Of the above, claims \_\_\_\_\_ are withdrawn from consideration.

2.  Claims 1-4 and 6-40 have been cancelled.

3.  Claims \_\_\_\_\_ are allowed.

4.  Claims 5, and 41-97 are rejected.

5.  Claims \_\_\_\_\_ are objected to.

6.  Claims \_\_\_\_\_ are subject to restriction or election requirement.

7.  This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.

8.  Formal drawings are required in response to this Office action.

9.  The corrected or substitute drawings have been received on \_\_\_\_\_. Under 37 C.F.R. 1.84 these drawings are  acceptable;  not acceptable (see explanation or Notice re Patent Drawing, PTO-948).

10.  The proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_, has (have) been  approved by the examiner;  disapproved by the examiner (see explanation).

11.  The proposed drawing correction, filed \_\_\_\_\_, has been  approved;  disapproved (see explanation).

12.  Acknowledgement is made of the claim for priority under U.S.C. 119. The certified copy has  been received  not been received  been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_.

13.  Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

14.  Other - See attached.

EXAMINER'S ACTION

Serial Number: 848017  
Art Unit : 232

15. Claims 5, and 41-97 are presented for examination.

16. This is an undue multiplicity rejection. (See MPEP 706.03(1)).

17. Claims 5, and 41-97 are rejected under 112 and 37 C.F.R. 1.75(b) as unduly multiplied.

18. The applicant has defined his invention with 58 claims, 12 of which are independent claims. The number of claims is deemed to be unnecessary and unreasonable in view of the nature and scope of the art. The applicants of this art should typically be able to define their inventions with 10 to 30 claims (or less).

19. Also 37 C.F.R. 1.75(b) states that more than one claim may be presented, provided they differ substantially from each other. Several of the independent claims (eg. claims 59, 65, 71, 77, 83, and 84 as examples) are almost identical and clearly do not differ substantially.

20. Thirty (30) or less claims, which differ substantially, should be sufficient for the applicant to properly define his invention. The applicant is required to select certain claims, not to exceed thirty (30) for examination on the merit.

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert B. Harrell whose telephone number is (703) 308-1754. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0754.

*Robert B. Harrell*  
ROBERT B. HARRELL  
EXAMINER  
ART UNIT 232